

1000

15222672.p	LITDYPF	LVDFQLARQPDGELGVDT	VIGFFGYLALEYAQSC	LTETADYVYSPGVVLI	ELITGRKAMDIYRKQGQCLTEWAR	SILEEY
15231330.p	LITDNPF	LVDFQLARQPDGEMGVDT	VIGFFGYLALEYAQSC	QITEKADYVYSPGVVLI	ELITGRKAMDIYRKQGQCLTEWAR	PILLEEY
51820015.q	LVTIDYPF	LVDFQLARQPDGMDGVDT	VIGFFGYLALEYAQSC	QITEKADYVYSPGVVLI	ELITGRKAMDIYRKQGQCLTEWAR	PILLEEY
18423902.p	LITDYPF	LVDFQLARQPDGKGVDT	VIGFFGYLALEYAQSC	QITEKADYVYSPGVVLI	ELITGRKAMDIYRKQGQCLTEWAR	PILLQK
30698132.p	LLSDYPF	QICDFQLAKLPEHNPHHIVF	PIEGFFGYLALEYAQSC	IVDEKTDWFAFGVLL	ELITGRAVDIDSRQSIVMWAK	PILLE
18416299.p	LLNDYPF	QISDFQLAKLPEHNPHHIVF	PIEGFFGYLALEYAQSC	IVDEKTDWFAFGVLL	ELITGRAVDIDSRQSIVMWAK	PILLE
30687061.p	LLTNDFPF	QISDFQLAKLPENWHRIVF	PIEGFFGYLALEYAQSC	IVDEKTDWFAFGVLL	ELITGRAVDIDSRQSIVMWAK	PILK
22330852.p	LLTDDFP	QICDFQLAKLQLTHHNVS	KPEGFFGYLALEYAQSC	IVDEKTDWFAFGVLL	ELITGRAVDIDSRQSIVMWAK	PILLE
15239245.p	LLTDPF	QICDFQLAKLPEHNPHHIVF	PIEGFFGYLALEYAQSC	IVDEKTDWFAFGVLL	ELITGRAVDIDSRQSIVMWAK	PILM
47670022.q	LLKDYPF	MPECPLVQKGKRNFAWALLNSQIVLVFGLN	QICDFQLAKLPEASMTNHQVT	TPEGFFGYLALEYAQSC	IFNEKTDVFAFGVLL	ELITGRADAKLSSLTATNQPSSTSGIRTLFDIPLVISACARMQYATNHGVMIHGGVRVRIHVSSSLQARPBLYGGGD
22300012.q	LLTDYPF	QICDFQLAKLPESEWHRIVF	PIEGFFGYLALEYAQSC	IVDEKTDWFAFGVLL	ELISGRKVPGDGSKLLSWAR	PVLN
AK105794.p	LLTDYPF	QICDFQLAKLPSERHHRIVF	PIEGFFGYLALEYAQSC	IVDEKTDWFAFGVLL	ELITGRPVDCSKLLSWAR	PBLN
15224251.p	LLNNDPF	QISDFQLAKLPSQSHHSIA	PIEGFFGYLALEYAQSC	IVDEKTDWFAFGVLL	ELISGRKVDA-SHOSLHSWAK	PILK
51680007.q	LLGDDFP	QISDFQLAKLKQWTHHSVI	PIEGFFGYLALEYAQSC	IVDEKTDWFAFGVLL	ELITGRPDC-SKLLSWAK	PILLE
15242821.p	LLGDYPF	QISDFQLAKLNKWTWAVI	PIEGFFGYLALEYAQSC	IVDEKTDWFAFGVLL	ELITGRPDC-TKHLILLAWAK	PAME
15219657.p	LLSNKIF	KLCDFQLAKWTAAPSPVFLCK	DVKGFFGYLALEYAQSC	KISDKTDVYAFGVLL	ELITGRKPIEARRPSGEEN	AKPILLHRG
15240345.p	LLSKKIF	KLCDFQLAKWTAAPSPVFLCK	DVKGFFGYLALEYAQSC	KISDKTDVYAFGVLL	ELITGRKPIASRAGQEN	AKPILLDRG
83605633.q	LLSDFCFA	OLCDFQLAKQVASTPHRLCT	DSTGTFFGYLALEYAQSC	KVNEKTDVYAFGVLL	ELITGRKPIRGCKQES	AKPILSS
AK067347.q	LLSDFCFA	OLCDFQLAKQVASTPHRLCT	DSTGTFFGYLALEYAQSC	KVNEKTDVYAFGVLL	ELITGRKPIRGCKQES	AKPILSS
15236248.p	LLSLELP	OLQDFQLSLWGSCKSYTIIQR	DWVGTFFGYLALEYAQSC	KVSKERKDVYAFGVLL	ELISGRKTISQNRRQGQESLHKQHFVKPKKRYLGMQ	AKPILDT
15227291.p	LLSDFPF	OLQDFQLSLWGSCKSYTIIQR	DWVGTFFGYLALEYAQSC	KVSKERKDVYAFGVLL	ELISGRKTISQNRRQGQESLHKQHFVKPKKRYLGMQ	AKPIMIE
83601222.q	LLNDEFP	OLQDFQLAKWAPSNSGSLTHS	DWVGTFFGYLALEYAQSC	KVTDKDVYAFGVLL	ELITGRKPISDGSKQES	ASPLILDS
15223890.p	LLSDDFP	OLQDFQLAKWASISTHIIICS	DWVGTFFGYLALEYAQSC	KVTDKDVYAFGVLL	ELITGRKPISSGCKQES	AKPILDD
22329713.p	LLSDDFP	OLQDFQLAKWASSTTQIICS	DWVGTFFGYLALEYAQSC	KVNEKDVYAFGVLL	ELITGRKPVNSESKAQDS	AKPILDD
15237563.p	LLADDFP	OLQDFQFASASSTTQHVAAGG	DWVGTFFGYLALEYAQSC	KVTDKDVYAFGVLL	ELISGRKPICDQKQES	ANPLILDS
83590712.q	LVSDDFP	KLCDFQLALWAEEASPVTGD	DWAGFFGYLALEYAQSC	IVYAKSVVLL	ELVSGRKPVSSGGCKES	ANTIIQG
83590694.q	LVSDDFP	KLCDFQLALWAEEASPVTGD	DWAGFFGYLALEYAQSC	IVYAKSVVLL	ELVSGRKPVSSGGCKES	ANTIIQG
AK072656.q	LISDADP	KLCDFQLALWDATDATSQTTCN	DVAGFFGYLALEYAQSC	KVNDKDVYAFGVLL	ELISGRKPLCTGCKQES	ANSIIQG
56440033.q	VMLIGYCKESEYN	IIVVYEYCNLSBWEHFLGLTVV	DVIVIVYVLALEYAQSC	IIVSRTDVYVACIVLFE	LVMWVCTTANQLSQNAFSILLIKTSMYDVHIQ	AEPILVES
lir3_IRK	MVAHDPFV	KIDDFMPADIXETDXRKG	KOLLVPRVMAPESLIKD	VFTTSSDMSPGVVLL	EITSIAEQPYCGLSN	
2phk_PhkB	LLDDDDMN	KLDDDFCSQDGPGEKLREVC	GSPVLAPEIILCECMNDN	HPGYGNEVDMWSPGIVIMY	ILAGCSPFWHRKQMLMR	
lias_TGFbR	LVKNNGTC	CTIDCILAVRHDASATDIDIA	NHPRVCKGKFLVWEDDSIN	MKHFESFRKADYIANGV	HEDYQOLPYDDLV	SDPVEEMR

1200

15222672.p	AVGELVDPRKEKRYSP	EVICLMLHASICLIRRPHLPR	-MSQVIRLIEDGMLMN	-EISGRFNGRLSTEKG	LR
15231330.p	AIDELIDPRKGKFVBS	EVICLMLHASICLIRRPHLPR	-MSQVIRLIEDGMLMN	-EISGRFNGRLSTEKG	LR
51820015.q	AIDELIDPRGKYRCEN	EVICLMLLEGDMVUDSGSVSAPSSDS	-GSRSRVMIQEONCRDMSPAR	-QDSHRVVEGKNSYDA	LRAWDRNKQ
18423902.p	AINEELDPRMNCYQDQ	EVICLMLMALCQYLCIRDPNSRPP	-MCOVIRLIEDGVVNPPI	-LDDCDL-DHTSSSYLNCLTRHRQL	
30698132.p	KNNMGEIVDPLIG	NDPDETEKCRMVMQASMCHEVSTM	RIVLRLRGP-DQLAEP-KQPGG-ARTVS		
18416299.p	KNSMEDIPRPLIG	NDPDETEKCRMVMQASMCHEVSTM	RIVLRLRGP-DQFAELQKQAG-ERTVS		
30687061.p	ENIKIKDVLPNE	DDDVYVBEEDRIVFIAISLCIHOTSMNRPOMS	VNAECDLQDHTSSSYLNCLTRHRQL		
22330852.p	RKAIGLVDPLIG	DETRNR	EEVLLRQFENKSLDKLREPEENKL-QRTYS	ELLNLDEEYNTSYRNLDINRIMETIV	
15239245.p	KKNDKDVLPNE	DETRNR	EEVLLRQFENKSLDKLREPEENKL-QRTYS	ELLNLDSVEYNSTKYLQGDLDIREVA	
47670022.q	GDDDDDDAVRMVMDPALG	CQYDA	EGLAVAYAKICIONSPELRFKMS	QVVEEIKCNIKDLKICMKRCVFPYRKA	DEVKGKD
22300012.q	DCAVQGLVPRI	GDGGYDG	AOPRIMWVASLCVRAAAWPTMTQVLHSTTRNGFPFIIVKGF	EVQVLLQEDBEDRSPVGSRFTLDRV	MIEITNGQDSTARQDDLRLRIMALA
AK105794.q	EGRISLVPRI	GDGYDG	EVQVLLQEDBEDRSPVGSRFTLDRV	EVQVLLQEDBEDRSPVGSRFTLDRV	TASPCSSSS
15224251.p	DCEI	KLVDPRG-EEFPL	QOERHIAFASCLRSSLCSRMS	EVIEVILQGSDIEKE	CECEDSSSI1S-PDPSINR
51680007.q	AGQVQELPFPNIG	CDGYDK	DOKCRMVAVASRCIMRPAWMSR	EVIFHFTESTC	MDDCTMFS-PSLSD
15242821.p	TGNTSELVDPRIQ	DKYDQ	QDNKLVILASQASCVQQSPILRPTMT	EVQVLLQEDBEDRSPVGSRFTLDRV	DDDNNEWDDYSMIFGCVPSDSFF
15219657.p	IEATBELLDPRIK	CTRKRN	SASERMRTRAAAACVINEESRPRGMC	EISLKGEGEILRLLSRSRKKSNPGIMCDYCQPLQRTK	SEMKSHTLAMLGTVTEPADDLL
15240345.p	IEATBELLDPRIK	CTRKRN	SASERMRTRAAAACVINEESRPRGMC	EIVSILKGEGEILRLLSRSRKKSNPGIMCDYCQPLQRTK	SEMCKCHLDLAMLGTVTEPADDHVY
83605633.q	GEIKQLVDPLIG	NDYDC	DEMERMLAASLCLTRSSHRSRPEMS	DISSFTCEN	EVIFHFTESTC
AK067347.q	GEIKQLVDPLIG	NDYDC	DEMERMLAASLCLTRSSHRSRPEMS	QMKLLEGDEDET	EVIFHFTESTC
15236248.p	CNLKVMLDPDT	IFDPE	SQFORMVLAASCLTRSSHRSRPEMS	QMKLLEGDEDET	EVIFHFTESTC
15227291.p	CNAKELLDPNIA	GTFDE	DOKCRMVLAATCLTRATAYRPNK	OILRLLRDNEAGKWMEEGENDCFDDEVP	SSTEHLHSLAMDVDENDSSVNS
83601222.q	GDSIDSLPADD	VKBD	AEYKRMALAASTCLRRSARLPRKIS	QVLSVIRGESEVSLDDLKAEP	ANVRTHGLALLDVEAESIS-S
15223890.p	GKYQLLDPRI	TEDH	ANKYKRMALAASTCLCIRP	IVIKLICGDEDILEWAMQQVNSSS	ESSEMILKDEQCOR
1ir3_IRK	-EVIEKFMDDGYYLDQDNC	EVIEKFMDDGYYLDQDNC	YCFYKRMALAASTCLCIRP	IVIKLICGDEDILEWAMQQVNSSS	SNMQSHLNALLGVE
2phk_PhkB	MIMSCNYYQGSE	EDYSDT	YCFYKRMALAASTCLCIRP	EIVNLKICGDEDILEWAMQQVNSSS	DTLHSCST
lias_TGFbR	KVVCEKRPNIP	NRWQS	CEAVRMKIMRCWYANGAARALTAIR	LAHPFQQY	SSTEHLHSLAMDVDEDDETASISS

1210 1220

15222672.p|....|....|....|....
15231330.p **DIN**
15231330.p **ELNBNKQY**
51820015.q **SVSHRY**
18423902.p
30698132.p **ME**
18416299.p **ME**
30687061.p **LGTSKD**
22330852.p **LAS**
15239245.p
47670022.q **FDFEWNVYFFNLGRDCSFIPGR**
22300012.q **CSIRHAND**
AK105794.q **LSN**
15224251.p **HRSR**
51680007.q
15242821.p
15219657.p
15240345.p **GR**
83605633.q
AK067347.q **EQ** - **TMDTSADGYWSRSSSF**
15236248.p **ME** - **RNNNS** - **LFSSSTCSS** - **RELQT**
15227291.p **LE** - **RNNNS** - **LFSSSSSSQELQS**
83601222.q **TE** - **HSNLSPLEEYLERCRCRSSSF**
15223890.p **I** - **EQQ-VSVEDYILKGRTSRSSSF**
22329713.p **M** - **EQQ-ISVEEYLKGRTSRSSSFN**
15237563.p **P** - **EASSISVEEYLKGRTSRSSSFN**
83590712.q **GGADFTAAVSLSEYYMKGRWSRSSSF**
83590694.q **GGGDFTAAVSLSEYYTKGRWSRSSSF**
AK072656.q **N** - **DFIAANTSLEEYLGRGRWSRSSSF**
56440033.q
lir3_IRK
2phk_Phk
1ias_TGFbR